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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/809,667	03/25/2004	Luca Bertamini	56681 . US 7825		
7590 05/23/2006			EXAM	EXAMINER	
David E. LaRose, Esq. c/o Luedeka, Neely and Graham, PC P.O. Box 1871			TENTON	TENTONI, LEO B	
			ART UNIT	PAPER NUMBER	
Knoxville, TN	37901		1732		
			DATE MAILED: 05/23/2000	DATE MAILED: 05/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/809,667	BERTAMINI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Leo B. Tentoni	1732				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 13 Apr	Responsive to communication(s) filed on <u>13 April 2006</u> .					
2a) ☐ This action is FINAL . 2b) ☒ This	☐ This action is FINAL . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowar	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-11 and 17-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-11 and 17-27 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

1. The finality of the last Office Action is withdrawn, and prosecution is hereby reopened.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

 Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-11 and 17-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mallonee (U.S. Patent 5,811,040 A).

Mallonee (see the entire document, in particular, col. 2, lines 3-19; col. 2, line 53 to col. 8, line 17; Examples) teaches a process of making fibers and yarns and for improving the mechanical properties of yarns as set forth in the instant claims, including making a fiber having a polyolefin matrix and discontinuous fibrils of fibril forming polymer dispersed in the polyolefin matrix. Regarding the depth (or length) to hydraulic diameter ratio, this ratio is a result-effective variable (i.e., this ratio achieves the desired fiber dyeability result) and it would have been obvious to one of ordinary skill in the art at the time the invention was made to optimize this ratio in view of Mallonee principally in order to make a desired final product (In re Antonie, 559 F.2d 618, 195 USPQ 6 (CCPA 1977); In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980)).

5. Claims 1-11 and 17-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mallonee (U.S. Patent 5,811,040 A) in combination with Sawyer et al (U.S. Patent 5,082,899 A).

Mallonee (see the entire document, in particular, col. 2, lines 3-19; col. 2, line 53 to col. 8, line 17; Examples) teaches a process of making fibers and yarns and for improving the mechanical properties of yarns as set forth in the instant

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claims, including making a fiber having a polyolefin matrix and discontinuous fibrils of fibril forming polymer dispersed in the polyolefin matrix. Mallonee does not explicitly teach a depth (or length) to hydraulic diameter ratio as claimed, which is taught by Sawyer et al (see the entire document, in particular, col. 7, lines 15-18; Example 1) and would have been obvious to one of ordinary skill in the art at the time the invention was made in the process of Mallonee in view of Sawyer et al principally in order to make a desired final product.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leo B. Tentoni whose telephone number is (571) 272-1209. The examiner can normally be reached on Monday - Friday (6:30 A.M. - 3:00 P.M.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina A. Johnson can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Les B. Tentoni

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